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March 13, 1956

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Reference:	PR-185 and Your let February 6, 1956.	tter of
Gentlemen:		
submit a pr	oposal for the const	
specificat:	leas barrels in account ons. The filters of all fot be supplied.	item k. of the speci-
The accompa	anying cost estimates	s show prices F.O.B. estimated within twelve

The 48" Zeiss lens has been previously tested to resolve about 50 lines/mm and hence is not quite comparable to the theoretical value (85 l/mm) of the Astro and we therefore will omit the comparison proof testing requested in Item 2 of the specifications.

Very truly yours,	

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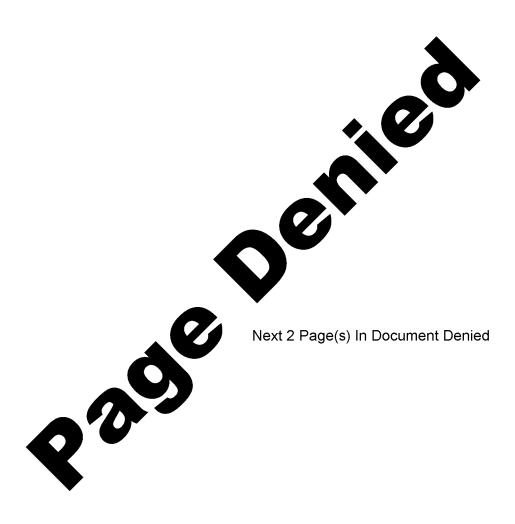
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,	February 6, 1956	
		25)
		25X
	Dear	25X
	It is requested that a proposal and cost breakdown be	
	submitted for the construction of two collapsible lens barrel	
	systems in accordance with the enclosed specifications.	
	Very truly yours,	
		25X
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	Enclosure: Specifications	
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Collapsible Lens Barrel Specifications

It is requested that a proposal be submitted for:

- 1. A 40" focal length Astro lens shall be selected and a lens barrel constructed to form a long focus lens system identical to that completed under RD-84, Task III, with the following modifications:
 - a. The front tripod support will be extended faither forward on the lens barrel permitting a steadier mount.
 - b. The triped sockets shall be recessed for lining up the triped lock screw and the triped socket.
 - c. The tripod sockets on the lens shall be separated by a larger distance to permit easier atilization of two tripods.
 - d. The securing of the different sections of the barrel shall be facilitated by easier meshing of one set of threads with the other either through lead in flares or by adoption of a different system. One possible system would be to use a key and groove with a locking ring.
 - e. The extension tubes shall bekknurled to prevent slippage of the barrel sections while handling.
 - f. Provision shall be made to prevent interlocking of the barrel elements through a suitable system of stops at the end of the travel.
 - g. The focusing system shall have a fine focus adjustment. The focusing and locking arrangement on the present system is probably suitable for rough focusing. The unit could probably be modified to include a fine focus at the end of the extension barrel adjacent to the camera mounting.
 - h. Markings should be made on the barrel to indicate direction of rotation of the various threaded parts to either lock or unlock the elements.
 - i. The front lens cap should be a screw on type rather than the friction fit provided.

j. The units shall be

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- j. The units shall be equipped with interchangeable adaptors to permit use of either the Leica camera with reflex housing or Exakta camera with the lens.
- with containers using commercially available filters of possible. k. The units shall be equipped with UV and K-2 filters

- 1. Easy access to the rear element of the lens shall be provided to permit easy cleaning.
- m. If possible the iris shall be protected to insure that the iris will not be damaged if left closed down during collapsing of the lens barrel.
- 2. A second collapsing barrel shall be designed and fabricated similar to the unit described above for a 48" focal length f-ll Zeiss Apo-Tessar lens to be purchased by the contractor. The lens shall be tested to insure its quality is equal to the 40" focal length Astro lens used in Task III of RD-84.

Preliminary engineering sketches shall be approved prior to fabrication. Photographic test results shall be submitted at the conclusion of the contract. Final drawings shall be submitted at the conclusion of the contract.

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